

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza A Virus M2 [10 – 97]

Enzyme description:- IAV M2 [10 - 97]

Clone number:- DU 73901

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-

Monoisotopic 36, 858.73 daltons

Average Mass 36, 882.67 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.96

Purity:- 80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.5 mM TCEP

Storage temperature:- -70 °C

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Clone Data Sheet

Influenza A Virus M2 [10 – 97]

<u>Protein</u>	IAV M2 [10 - 97]
<u>Clone number</u>	DU 73901
<u>Species</u>	Influenza A virus (IAV) strain A/Puerto Rico/8/1934(H1N1) ('PR8')
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL <u>FQGPLGS</u> PIRNEWGCRCNGSS DPLTIAANIIGILHLTLWILDRLFFKCIYRRFKYGLKGGPSTEGVPKSM REEYRKEQQSAVDADDGHFVSIELE
<u>Native sequence</u>	Amino acids P10 – E97 (end residue) of IAV M2 protein. Residue P232 of the fusion protein is equivalent to P10 of the native enzyme. The GST tag is located at residues 1 – 220.
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGP</u>) residues 221 - 229